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APPLICATION NO.	F	TILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/941,542 08/29/2001		08/29/2001	Noman F. Kane	60158-143	7036	
26096	7590	04/08/2004		EXAMINER		
		EY & OLDS, P.C	NGUYEN, TH	NGUYEN, THUKHANH T		
400 WEST MAPLE ROAD SUITE 350				ART UNIT	PAPER NUMBER	
BIRMINGH	AM. MI	48009	1722			

DATE MAILED: 04/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)					
		09/941,5		KANE, NOMAN F.					
	Office Action Summary	Examine		Art Unit	-0				
	•	<u> </u>	nh T. Nguyen	1722	+1)				
	The MAILING DATE of this communic				ress				
Period fo									
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) operiod for reply is specified above, the maximum stature to reply within the set or extended period for reply we reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no enication. days, a reply within the statory period will apply and vill, by statute, cause the ap	vent, however, may a reply be tutory minimum of thirty (30) o vill expire SIX (6) MONTHS fro plication to become ABANDO	timely filed lays will be considered timely. om the mailing date of this com NED (35 U.S.C. § 133).	nmunication.				
Status									
1)	Responsive to communication(s) filed	on <u>08 January 200</u>	<u>04</u> .						
	This action is FINAL . 2b) This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	on of Claims								
4)⊠ 5)□ 6)⊠ 7)□	4) Claim(s) 1 and 3-26 is/are pending in the application. 4a) Of the above claim(s) 15-24 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1, 3-14, 25-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
•	The specification is objected to by the								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
	Applicant may not request that any objecti Replacement drawing sheet(s) including the		_		2 1 121/4\				
11)	The oath or declaration is objected to l	•	- · ·	-	, ,				
Priority (ınder 35 U.S.C. § 119								
a)l	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do None of: 2. Certified copies of the priority do None of: 3. Copies of the certified copies of application from the International See the attached detailed Office action	ocuments have been ocuments have been fulled the priority documents all Bureau (PCT Ru	en received. en received in Applica ents have been recei le 17.2(a)).	ation No ved in this National S	tage				
Attachmen	t(s)								
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTo- nation Disclosure Statement(s) (PTO-1449 or Pi r No(s)/Mail Date		4) Interview Summa Paper No(s)/Mail 5) Notice of Informat 6) Other:		152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3-14 and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over the German reference (39 39 352) in view of the admitted prior art or over the admitted prior art in view of the German reference ('352).

The German reference discloses a forming tool for bending a plastic tube, comprising a forming channel (2) having a curved cross-section and an interior dimension (9), a topmost mouth (18) is narrower than the tube outer diameter to keep the tube snap-fits inside the forming channel (see abstract), wherein the tube (4) is having a flexed dimension (14) when the tube is passing through the topmost mouth and a non-flexed dimension (15) before and after the tube is positioned into the forming channel, wherein the forming channel contact approximately 180°-210° of the tube (Fig. 4, abstract), wherein the forming channel includes at least one curved track, and one straight track (Fig. 1, 6-8). The German reference, however, fails to disclose a pair of opposing flanges curved away from the forming channel.

The admitted prior art disclose a square forming track having a pair of opposing flanges (20) curved away from the forming channel (18), a pair of securing feature (24) located at the topmost position of the forming channel to keep the forming pipe inside the

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track. The admitted prior art fails to disclose a curved cross section forming channel contacting approximately 180° of the pipe.

It would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the German reference by providing a pair of opposing flanges curved away from the forming channel as taught by the admitted prior art in order to facilitate the handling of the forming tool during the insertion or removal of the pipe from the forming channel.

It would also have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify the admitted prior art by providing a curved cross section forming channel as taught by the German in order to provide more contact surface between the forming tool and the tube to expedite the forming process and to eliminate the deformation of the tube.

Response to Arguments

3. Applicant's arguments with respect to claims 1, 3-14 have been considered but are moot in view of the new ground(s) of rejection.

The German reference disclose a forming tool for bending a flexible tube in which the diameter of the tube is changing as it moves across the upper mouth of the forming channel, and the forming channel having a circular cross section, which surrounds about 180°-210° of the tube. This forming tool eliminates the use of gripping device and means for closing or opening the tool.

The admitted prior art disclose a pair of flanges to facilitate the handling of the tool.

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Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Japan references (59-169835; 02-32831; 09-164586; 11-90992) disclose a plurality of tube bending devices having forming tracks with curved cross section forming channels.
- 5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Khanh T. Nguyen whose telephone number is 571-272-1136. The examiner can normally be reached on Monday- Friday, 6:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TN

ROBERT DAVIS
PRIMARY EXAMINER
GROUP 1300 / 74